

FORM PTO 1449
(REV 2-32)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

File No.
138161

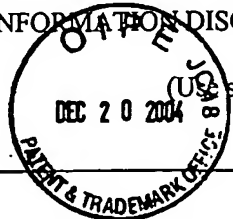
Serial No.
10/691,314

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicant(s):
Burrell et al.

Filing Date:
10/22/2003

Group:
3737



(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WJ	1	5,391,199	02/21/1995	Ben-Haim	607	122	07/20/1993
	2	5,738,093	*4/14/1998	Ben-Haim	128	653.1	02/01/1996
	3	6,289,115 B1	09/11/2001	Takeo	382	130	02/12/1999
	4	6,289,239 B1	09/11/2001	Panescu et al.	600	523	03/29/2000
	5	6,389,104 B1	05/14/2002	Bani-Hashemi et al.	378	98.12	06/30/2000
	6	6,468,265 B1	10/22/2002	Evans et al.	606	1	11/09/1999
	7	6,650,927 B1	11/18/2003	Keidar	600	424	08/18/2000

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WJ	8	2003/0097219 A1	05/22/2003	O'Donnell et al.	702	19	10/12/2001
	9	2003/0187358 A1	10/02/2003	Okerlund et al.	600	443	03/15/2002
	10	2003/0220557 A1	11/27/2003	Cleary et al.	600	409	02/28/2003
	11	2004/0087850 A1	05/06/2004	Okerlund et al.	600	407	11/01/2002
	12	2004/0225328 A1	11/11/2004	Okerlund et al.	607	9	05/09/2003
	13	2004/0225212 A1	11/11/2004	Okerlund et al.	600	407	05/07/2003
	14	2004/0225331 A1	11/11/2004	Okerlund et al.	607	14	05/09/2003

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION Y / N
WJ	15	EP 1182619 A2	27.02.2002	European Union			Y
	16	EP 1321101 A2	18.12.2002	European Union			Y
	17	WO 91/07726	30.05.1991	WO			Y
	18	WO 96/10949	18.04.1996	WO			Y

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Patents, etc.)

	19	PCT Search Report for PCT/US2004/020909
	20	F. H.M. Wittkamp et al.; "Loca Lisa - New Technique for Real-Time 3-Dimensional Localization of Regular Intracardiac Electrodes;" <i>Circulation</i> ; 1999; 99: 1312-1317.
	21	"Advanced Vessel Analysis" product description, [online] http://www.gehealthcare.com/user/ct/clin_app/products/aswessel.html [retrieved 12/01/2004]
	22	"CardiIQ" product description, [online], http://egems.gehealthcare.com/geCommunity/Europe/flex_trial/awFlexTrial/aw3_1/eflextrial [retrieved 12/01/2004]

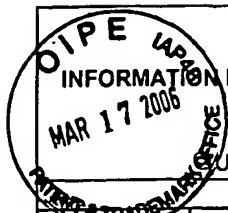
Examiner

/William Jung/ (07/23/2006)

Date considered

07/23/2006

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PTO-1449		Attorney's Docket Number 138161/GEM-0080	Serial Number 10/691,314
INFORMATION DISCLOSURE STATEMENT BY APPLICANT LIST OF ITEMS (Use several sheets if necessary)		Name of Applicant Burrell et al.	
		Filing Date 10/22/2003	Group Art Unit 3737

U.S. PATENT DOCUMENTS						
Examiner Initial	Document Number	Date	NAME	Class	Subclass	Filing Date If Appropriate
WJ	6208347	3/2001	Migdal	345	419	
WJ	6246898	6/2001	Vesely	600	424	
WJ	6504894	1/2003	Pan	378	8	

U.S. PATENT APPLICATION PUBLICATIONS						
Examiner Initial	Document Number	Date	NAME	Class	Subclass	Filing Date If Appropriate
WJ	2003/0018251	1/2003	Solomon	600	427	
WJ	2004/0027347	2/2004	Farsaie	345	419	

FOREIGN PATENT DOCUMENTS						
Examiner Initial	Document Number	Date	COUNTRY	Class	Subclass	TRANSLATION YES NO

OTHER INFORMATION (including author, title, date, pertinent)	
WJ	Sra et al., "Registration of Three-Dimensional Left Atrial Computed Tomographic Images With Projection Images Obtained Using Fluoroscopy", Circulation 2005; 112: 3763-3768.

EXAMINER /William Jung/ (07/23/2006)	DATE CONSIDERED 07/23/2006.
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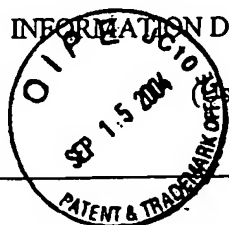
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Applicant(s):
Burrell et al.

Filing Date:
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Group:
3762

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WJ	1	3,954,098	05/04/1976	Dick et al.	128	2.05 Z	01/31/1975
↓	2	5,245,287	09/14/1993	Nowak et al.	324	322	08/05/1992
↓	3	5,274,551	12/28/1993	Corby, Jr.	364	413.13	11/29/1991
↓	4	5,304,212	04/19/1994	Czeisler et al.	607	88	01/10/1992
↓	5	5,353,795	10/11/1994	Souza et al.	128	653.2	12/10/1992
↓	6	5,431,688	07/11/1995	Freeman	607	10	07/19/1993
↓	7	5,568,384	10/22/1996	Robb et al.	364	419.13	10/13/1992
↓	8	5,823,958	10/20/1998	Truppe	600	426	06/15/1994

U.S. PATENT APPLICATION PUBLICATIONS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WJ	1	2002/0010392 A1	01/24/2002	Desai	600	374	08/06/2001
↓	2	2002/0046756 A1	04/25/2002	Laizzo et al.	128	899	09/14/2001
↓	3	2002/0138108 A1	09/26/2002	Kralik	607	9	10/10/2001
↓	4	2003/0018251 A1	01/23/2003	Solomon	600	427	04/05/2002
↓	5	2003/0023266 A1	01/30/2003	Borillo et al.	606	200	07/19/2002
↓	6	2003/0028183 A1	02/06/2003	Sanchez et al.	606	34	03/27/2001

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Patents, etc.)

WJ	1	H. Nikagawa et al., "Role of the Tricuspid Annulus and the Eustachian Valve/Ridge on Atrial Flutter: Relevance to Catheter Ablation of the Septal Isthmus and a New Technique for Rapid Identification of Ablation Success;" <i>Circulation</i> 1996; 94:407-24.
↓	2	L. Gepstein et al., "A Novel Method for Nonfluoroscopic Catheter-Based Electroanatomical Mapping of the Heart: In Vitro and In Vivo Accuracy Results;" <i>Circulation</i> 1997; 95:1611-22.
↓	3	S. Shpun et al., "Guidance of Radiofrequency Endocardial Ablation with Real-time Three-dimensional Magnetic Navigation System;" <i>Circulation</i> 1997; 96:2016-21.
↓	4	J. Sra et al., "Electroanatomic Mapping to Identify Breakthrough Sites in Recurrent Typical Human Flutter;" <i>Pacing Clin. Electrophysiol</i> 2000; 23:1479-92.


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant(s): Burrell et al.	
		Filing Date: 10/22/2003	Group: 3762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WJ	9	5,839,440	11/24/1998	Liou et al.	128	654	06/17/1994
	10	5,951,475	09/14/1999	Gueziec et al.	600	425	09/25/1997
	11	6,081,577	06/27/2000	Webber	378	23	02/19/1999
	12	6,154,516	11/28/2000	Heuscher et al.	378	15	09/18/1998
	13	6,233,304 B1	05/15/2001	Hu et al.	378	8	11/25/1998
	14	6,235,038 B1	05/22/2001	Hunter et al.	606	130	10/28/1999
	15	6,249,693 B1	06/19/2001	Cline et al.	600	410	11/01/1999
	16	6,252,924 B1	06/26/2001	Davantes et al.	378	8	09/30/1999

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Patents, etc.)

WJ	5	R.J. Schilling et al.; "Simultaneous Endocardial Mapping in the Human Left Ventricle Using a Noncontact Catheter: Comparison of Contact and Reconstructed Electrograms During Sinus Rhythm;" <i>Circulation</i> 1998; 98:997-98.
↓	6	C. C. Gornick et al., "Validation of a New Noncontact Catheter System for Electroanatomic Mapping of Left Ventricular Endocardium;" <i>Circulation</i> 1999; 99:829-835
↓	7	J. Sra et al., "Noncontact Mapping for Radiofrequency Ablation of Complex Cardiac Arrhythmias;" <i>J. Interven. Cardiac Electrophysiol</i> 2001; 5:323-331.
↓	8	N. M.S. de Groot et al., "Three-Dimensional Catheter Positioning During Radiofrequency Ablation in Patients: First Application of a Real-Time Position Management System;" <i>J. Interven. Cardiac Electrophysiol</i> 2001; Nov. 11(11):1183-92

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WJ	17	6,256,368 B1	07/03/2001	Hsieh et al.	378	8	10/15/1999
↓	18	6,266,553 B1	07/24/2001	Fluhrer et al.	600	428	09/11/1998
	19	6,314,310 B1	11/06/2001	Ben-Haim et al.	600	424	01/22/1998
	20	6,325,797 B1	12/04/2001	Stewart et al.	606	41	04/05/1999
	21	6,348,793 B1	02/19/2002	Balloni et al.	324	309	11/06/2000
	22	6,353,445 B1	03/05/2002	Babula et al.	345	733	11/25/1998
	23	6,381,485 B1	04/30/2002	Hunter et al.	600	407	10/28/1999
↓	24	6,411,848 B2	06/25/2002	Kramer et al.	607	9	04/18/2001

U.S. PATENT APPLICATION PUBLICATIONS

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Patents, etc.)

WJ	9	J. Schrieck et al., "Radiofrequency Ablation of Cardiac Arrhythmias Using a Three-Dimensional Real-Time Position Management and Mapping System;" <i>Pacing Clin. Electrophysiol.</i> , 2002 Dec., 25(12):1699-707.
↓	10	F. Wittkamp et al., "Real-Time, Three-Dimensional, Nonfluoroscopic Localization of the Lasso Catheter;" <i>J. Interv. Cardiac Electrophysiol.</i> 2002, 13:630
	11	J. Sra et al., "Cardiac Chamber Geometry Construction, Catheter Navigation and Ablation Using Cutaneous Patches;" <i>Supplement to Circulation</i> 2003 Oct., 108 (17): IV-585, Abstract 2667.
↓	12	J. Sra et al., "Three-Dimensional Right Atrial Geometry Construction and Catheter Tracking Using Cutaneous Patches;" <i>J. Interv. Cardiac Electrophysiol.</i> , 2003 14:897.

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				Filing Date: 10/22/2003		Group: 3762	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WJ	25	6,421,412 B1	07/16/2002	Hsieh et al.	378	9	08/23/1999
	26	6,456,867 B2	09/24/2002	Reisfeld	600	407	02/21/2001
	27	6,490,475 B1	12/03/2002	Seeley et al.	600	426	04/28/2000
	28	6,549,606 B1	04/15/2003	Vaillant et al.	378	4	09/21/2000
	29	6,556,695 B1	04/29/2003	Packer et al.	382	128	09/16/1999

U.S. PATENT APPLICATION PUBLICATIONS							
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Patents, etc.)			
WJ		13	Z. Zhang; " Iterative Point Matching for Registration of Free-Form Curves;" <i>Inria</i> 1992, pages 1 - 40.
		14	C.L. Grines et al.; "Functional Abnormalities in Isolated Left Bundle Branch Block: The Effect of Interventricular Asynchrony;" <i>Circulation</i> ; 1989; 79:845-53.
		15	H. B. Xia et al., "Differing effects of right ventricular pacing and left bundle branch block on left ventricular function;" <i>Br. Heart J.</i> , 1993; 69:166-173.
		16	S. Cazeau et al., "Effects of Multisite Biventricular Pacing in Patients with Heart Failure and Intraventricular Conduction Delay;" <i>N. Engl. J. Med.</i> 2001; 344:873-880.

Examiner <div style="text-align: right;">/William Jung/ (07/23/2006)</div>	Date considered <div style="text-align: center;">07/23/2006</div>
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WJ		17	M. V. Pitzalis et al., "Cardiac Resynchronization Therapy Tailored by Echocardiographic Evaluation of Ventricular Acnchrony;" <i>J. Am. Coll. Cardiol.</i> 2002; 40:1615-22.
↓		18	W. T. Abraham et al., "Cardiac Resynchronization in Chronic Heart Failure;" <i>N. Engl. J. Med.</i> 2002; 346:1845-1853
↓		19	C. A. Pelizzari et al., "Accurate Three-Dimensional Registration of CT, PET, and/or MR Images of the Brain;" <i>J. Comput. Assist. Tomogr.</i> 1989; 13:20-26
↓		20	A.C. Evans et al.; "MRI-PET Correlation in Three Dimensions Using a Volume-of-Interest (VOI) Atlas;" <i>J. Cereb Flow Metab.</i> 1991; 11:A69-A78.
↓		21	R.P. Woods et al.; "Rapid Automated Algorithm for Aligning and Reslicing PET Images;" <i>Journal of Computer Assisted Tomography</i> , 1992; 16:620-633
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WJ	22	B.A. Ardekani et al.; "A Fully Automatic Multimodality Image Registration Algorithm;" <i>Journal of Computer Assisted Tomography</i> ; 1995; 19:615-623.
↓	23	L. Thurfell et al.; "Registration of Neuroimaging Data: Implementation and Clinical Applications;" <i>American Society of Neuroimaging</i> ; 2000; 10:39-46
↓	24	S. A. Ben-Haim et al.; "Nonfluoroscopic, in vivo navigation and mapping technology;" <i>Nature Medicine</i> ; 1996, 2:1393-5.
↓	25	B. Taccardi et al.; "A new intracavitary probe for detecting the site of origin of ectopic ventricular beats during one cardiac cycle;" <i>Circulation</i> ; 1987; 75:272-81
↓	26	F. H.M. Wittkamp et al.; "New Technique for Real-Time 3-Dimensional Localization of Regular Intracardiac Electrodes;" <i>Circulation</i> ; 1999; 99:1312-17.
↓	27	V. Fuster et al. "ACC/AHA/NASPE 2002 Guidelines Update for Implantation of Pacemakers and Antiarrhythmia Devices;" <i>J. Am. Coll. Cardiol</i> 2001; 38:1-47.
↓	28	D. R. Ney "Volumetric Rendering of Computed Tomography Data: Principles and Techniques;" <i>IEEE Computer Graphics and Applications</i> ; 1990; 24-32

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WJ 	29	N. M. Alpert et al., "The Principal Axes Transformation - A Method for Image Registration;" <i>The Journal of Nuclear Medicine</i> ; 1990; 31:1717-1722.	
30	P.A. van den Elsen et al.; "Medical Image Matching - A Review with Classification;" <i>IEEE Engineering in Medicine and Biology</i> , 1993; 26 - 38.		
31	G. T. Barnes et al.; "Conventional and Spiral Computed Tomography: Physical Principles and Image Quality Considerations;" <i>Computed Body Tomography</i> , 1998, Lippincot-Raven, Philadelphia, PA pp 1 - 20.		
32	Milan Sonka and J. Michael Fitzpatrick (eds); <i>Handbook of Medical Imaging Vol. 2. Medical Image Processing and Analysis</i> ; pp 129-174 & 447-506		
33	W. M. Feinberg et al.; "Prevalence, Age Distribution, and Gender of Patients with Atrial Fibrillation;" <i>Arch. Intern. Med. Vol. 155</i> ; March 1995; pages 469-473		
34	J. L. Cox, J. P. Boineau, R. B. Schuessler, T. B. Ferguson, Jr., M. E. Cain, B. D. Lindsay, P. B. Corr, K. M. Kater, D. G. Lappas; "Operations for Atrial Fibrillation;" <i>Electrophysiology, Pacing and Arrhythmia, Clin. Cardiol.</i> 14, 1991; pages 827-834		

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WJ 	35	M. Haissaguerre, P. Jais, S. C. Shah, A. Takahashi, M. Hocini, G. Quiniou, S. Garrigue, A. Le Mouroux, P. Le Metayer, and J. Clementy; "Spontaneous Initiation of Atrial Fibrillation by Ectopic Beats Originating in the Pulmonary Veins;" The New England Journal of Medicine, Vol 339, No. 10, September 3, 1998; pp 659-668.	
36	C. Pappone, S. Rosanio, G. Augello, G. Gallus, G. Vicedomini, P. Mazzone, S. Gulletta, F. Gugliotta, A. Pappone, V. Santinelli, V. Tortoriello, S. Sala, A. Zangrillo, G. Crescenzi, S. Benussi, and O. Alfieri; "Mortality, Morbidity, and Quality of Life After Circumferential Pulmonary Vein Ablation for Atrial Fibrillation;" Journal of the American College of Cardiology, Vol. 42, No. 2; 2003; 185 - 197.		
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Examiner <div style="text-align: center;">/William Jung/ (07/23/2006)</div>		Date considered <div style="text-align: center;">07/23/2006</div>	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant(s): Burrell et al.	
		Filing Date: 10/22/2003	Group: 3762

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

U.S. PATENT APPLICATION PUBLICATIONS							
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Patents, etc.)			
WJ		38	ACC/AHA/ESC Practise Guidelines; Eur. Heart J., Vol. 22, issue 20, October 2001; pages 1854 - 1923
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